



Future Water Demand Projections in Broward County

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March 9, 2009

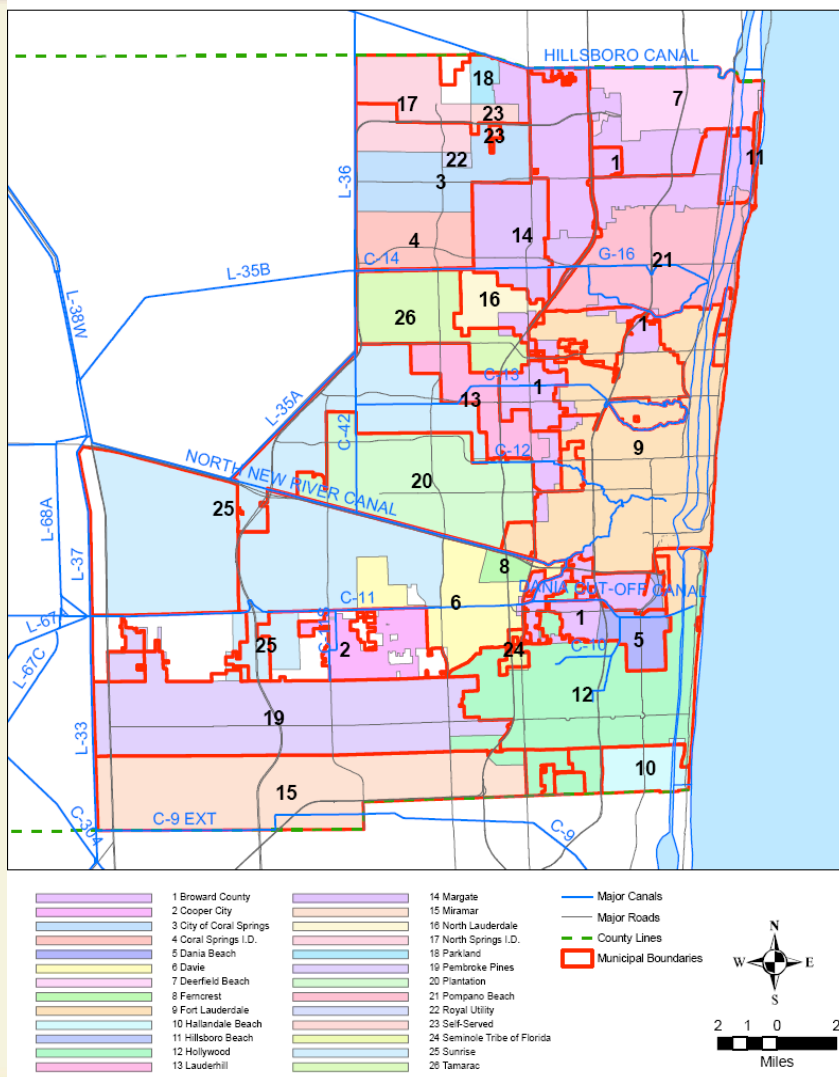
Dry, dry, dry



Gator hole



Broward County Water Supply Utilities



- 31 municipalities
- 25 water providers
- Revised demands much lower than previous projections
- 16 utilities have less than 1.0 mgd need through 2025

Status of Water Supply Facilities Work Plans in Broward

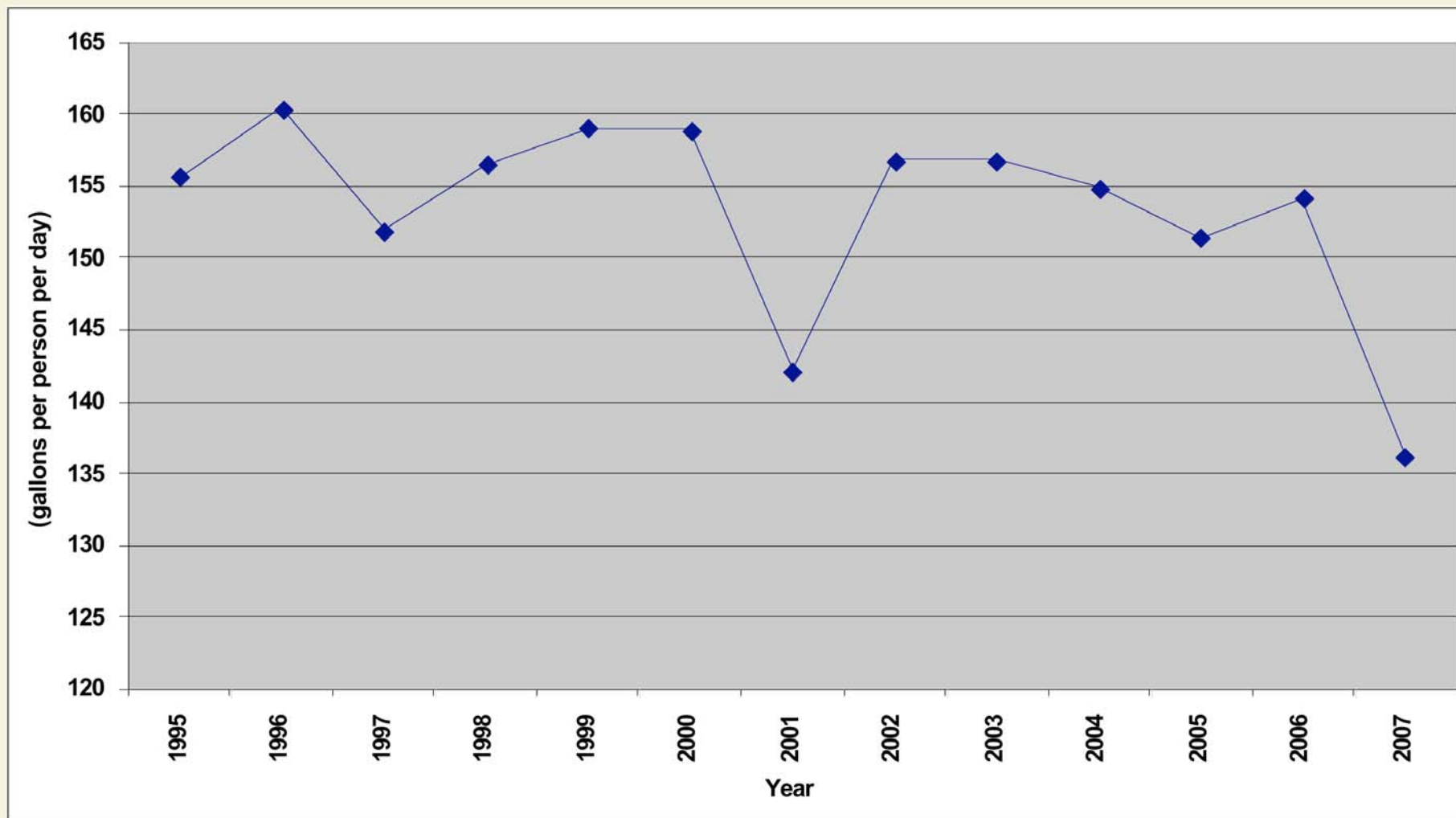
Status of Work Plans	Number
Work Plans required	32
Proposed Work Plans submitted	28
Adopted Work Plans submitted	18
Work Plans found 'in compliance'	13
Work Plans found 'not in compliance'	1

Demand Projections

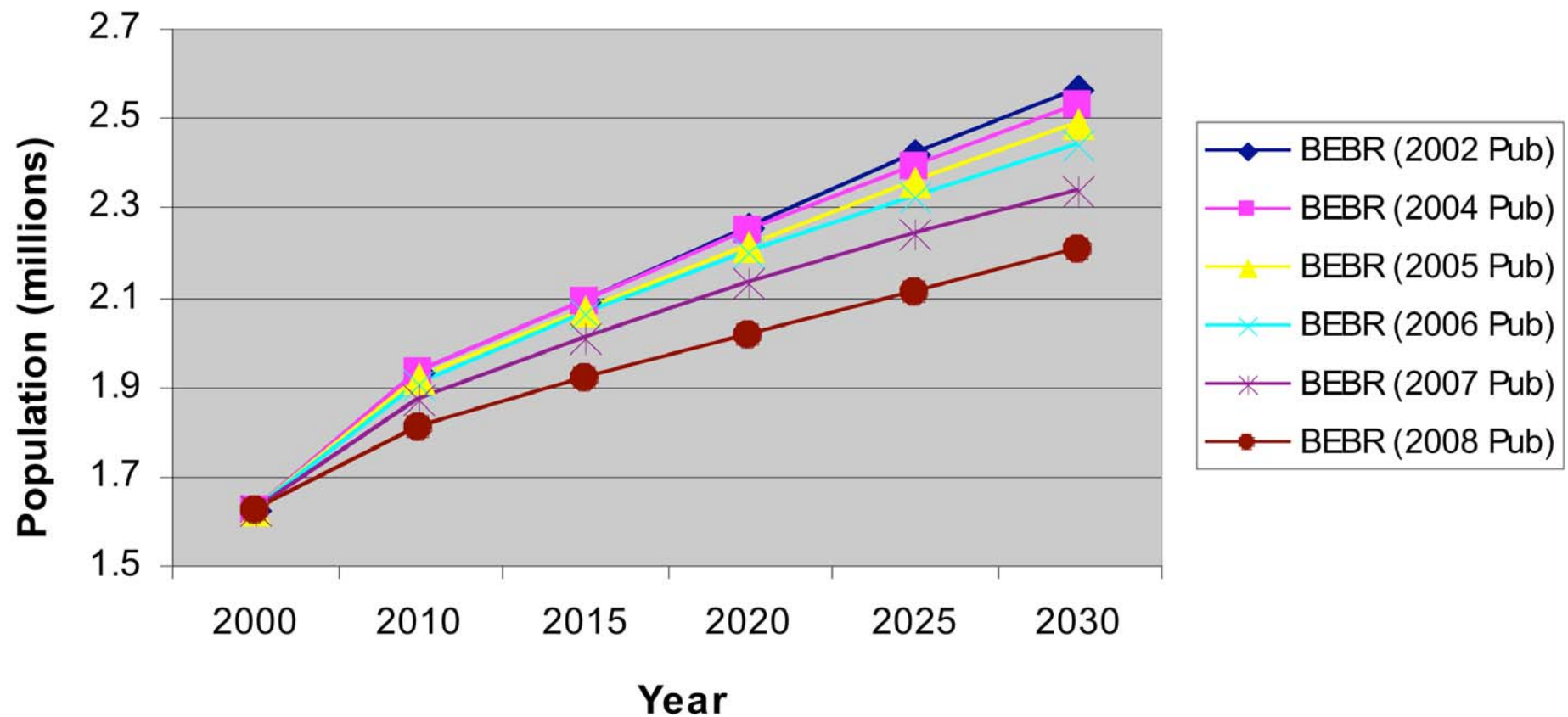
- The demand equation:

**Population Projection X per capita rate =
Future Water Supply Needed**

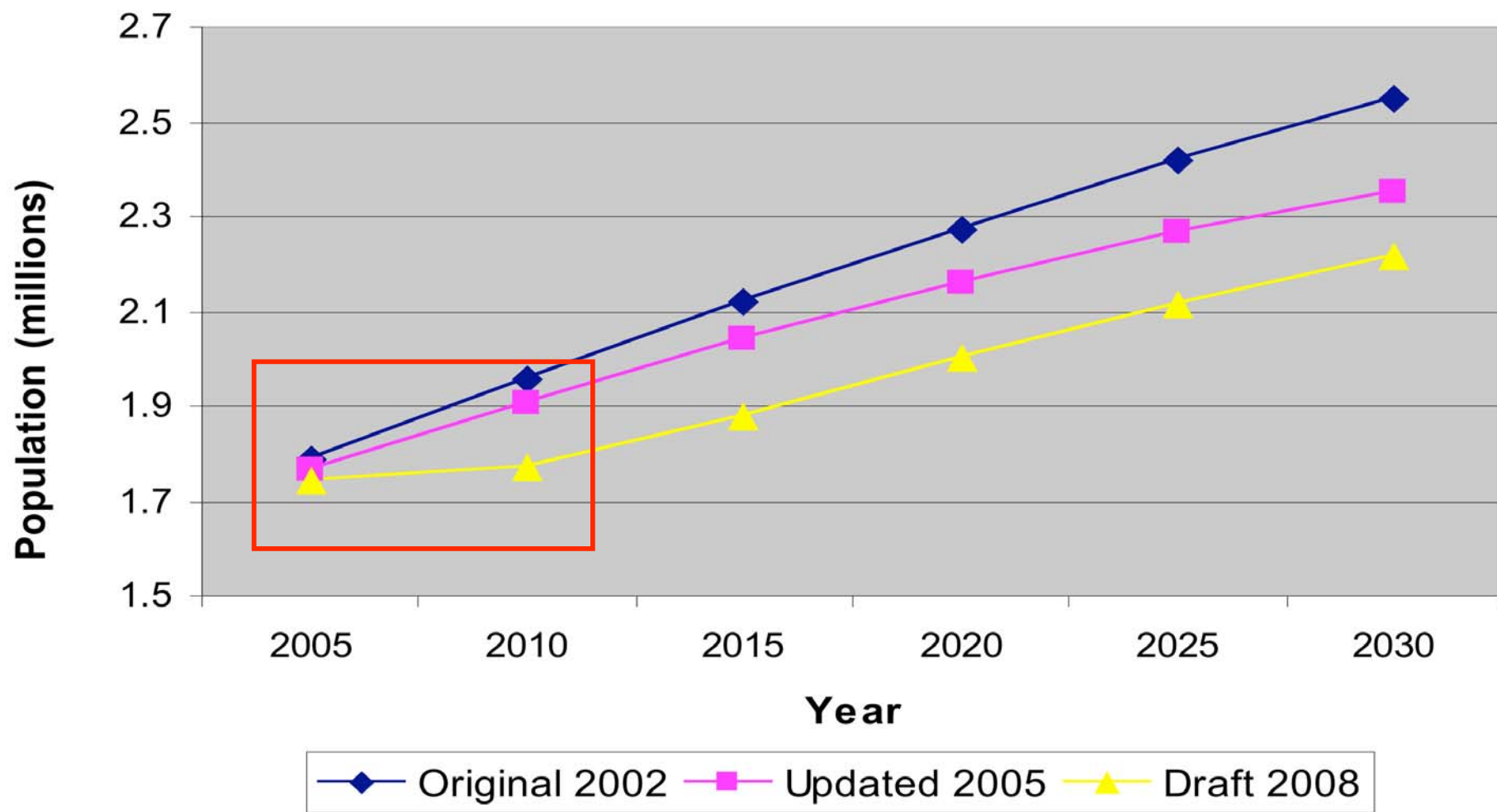
Broward Per Capita Usage Over Time



Published Medium BEBR for Broward



Broward Population Model Projections



Sources of future demand comparison

- **Lower East Coast Water Supply Plan Update (2005-2006)**
 - Extraordinary growth projections
 - Higher per capita consumption rates
- **Interim SFWMD (2008 to present)**
 - Local government Water Supply Facilities Work Plans and water use permit renewals
- **Latest Broward County population model**

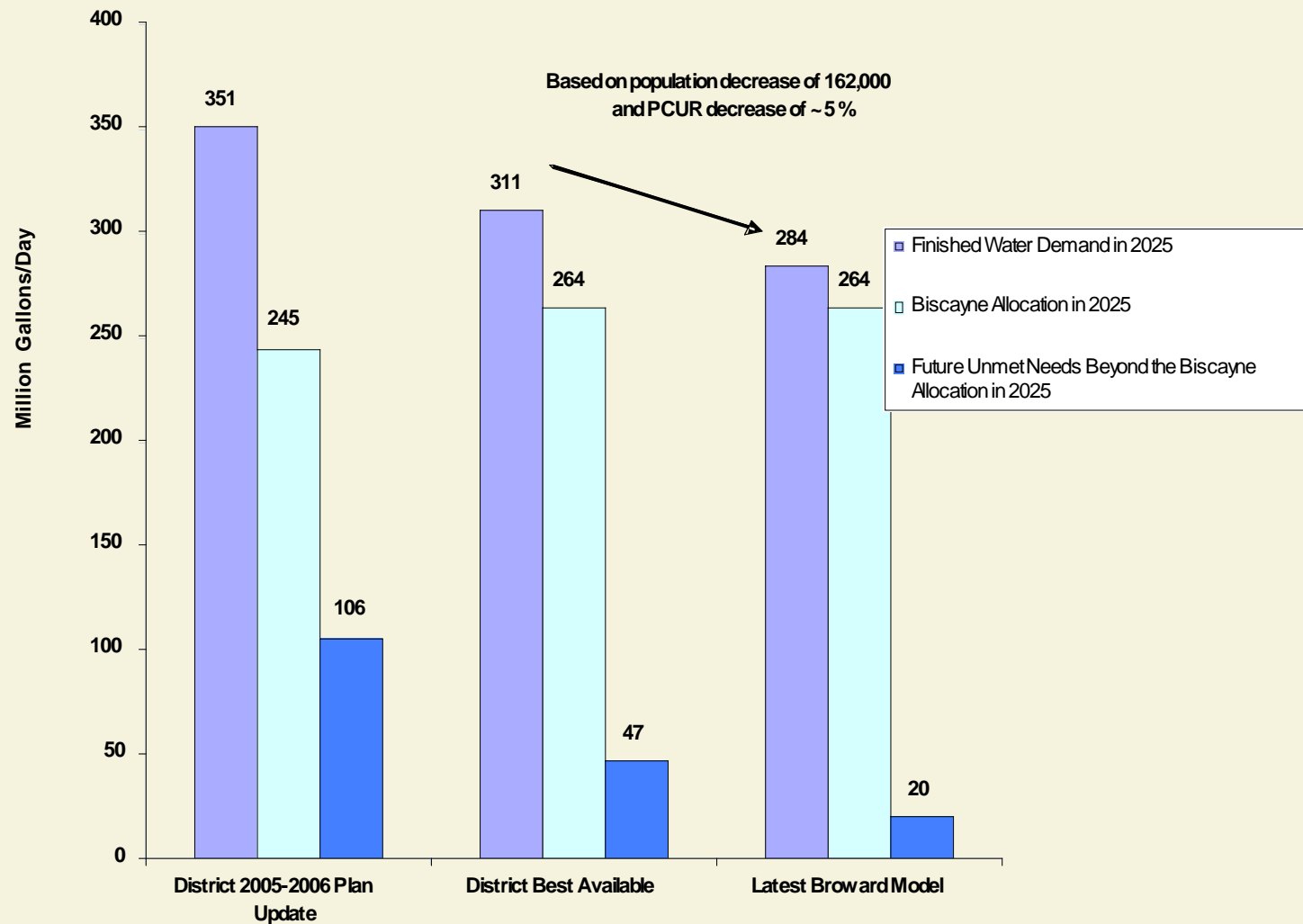
Updated Water Supply Projections

- Population projection and per capita consumption rates have dropped dramatically
- Net result in additional water needed by 2025:
- Original projection: 106 mgd
- Interim SFWMD: 47 mgd
- Latest Broward model: 20 mgd *

* Subject to refinement; Not yet reviewed by majority of utilities

Updated Demands

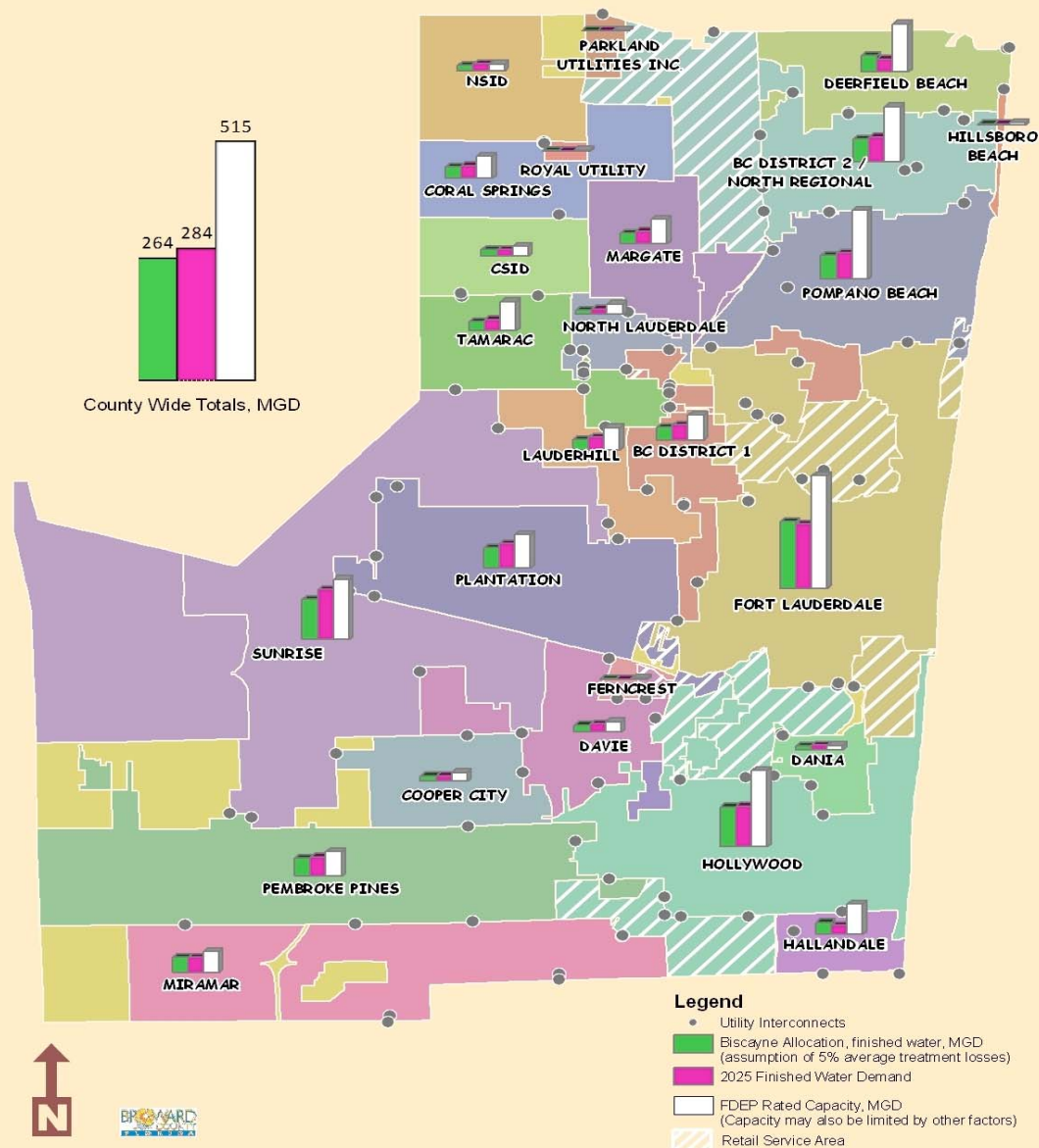
Broward County's Future Water Demands



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

CURRENT WATER DEMANDS

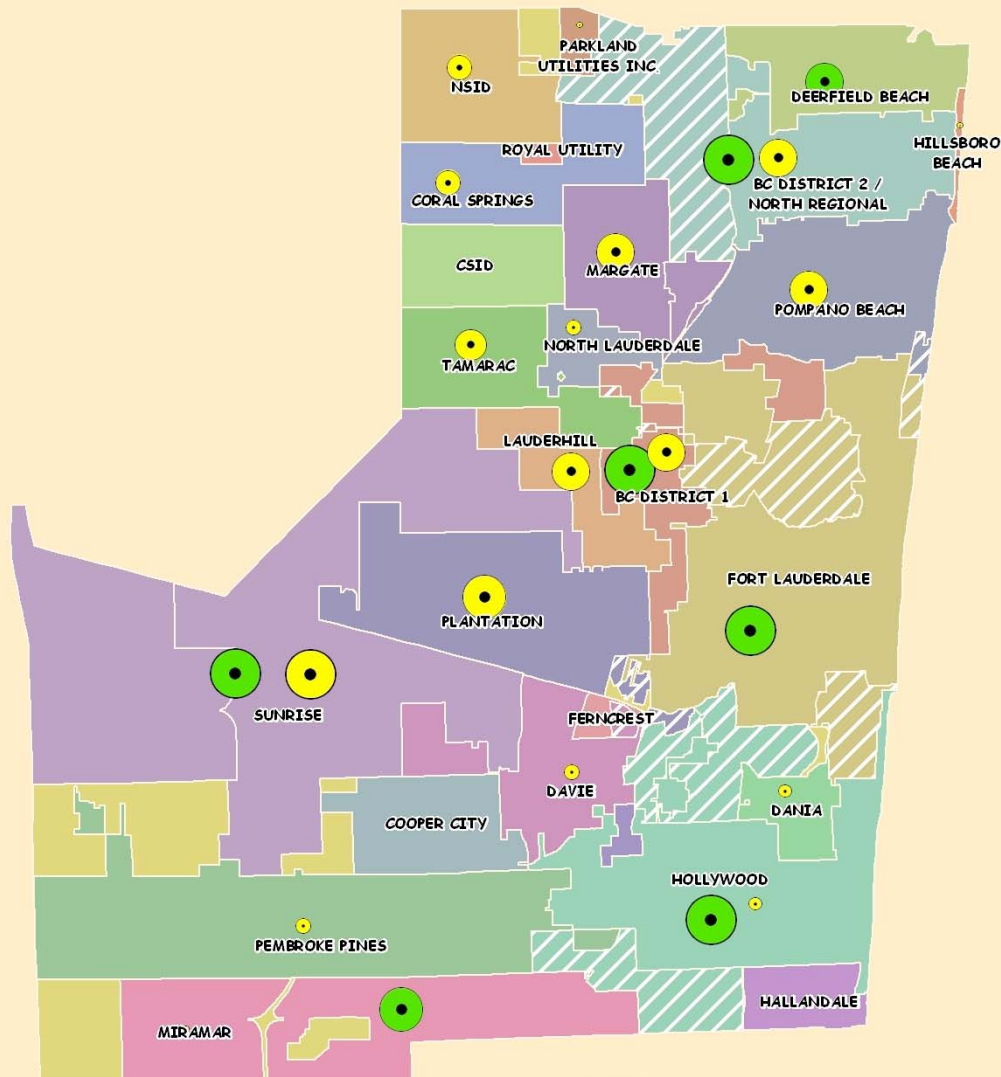
March 6, 2009



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

UNMET NEEDS ABOVE BISCAIYNE ALLOCATIONS FUTURE FLORIDAN PROJECTS

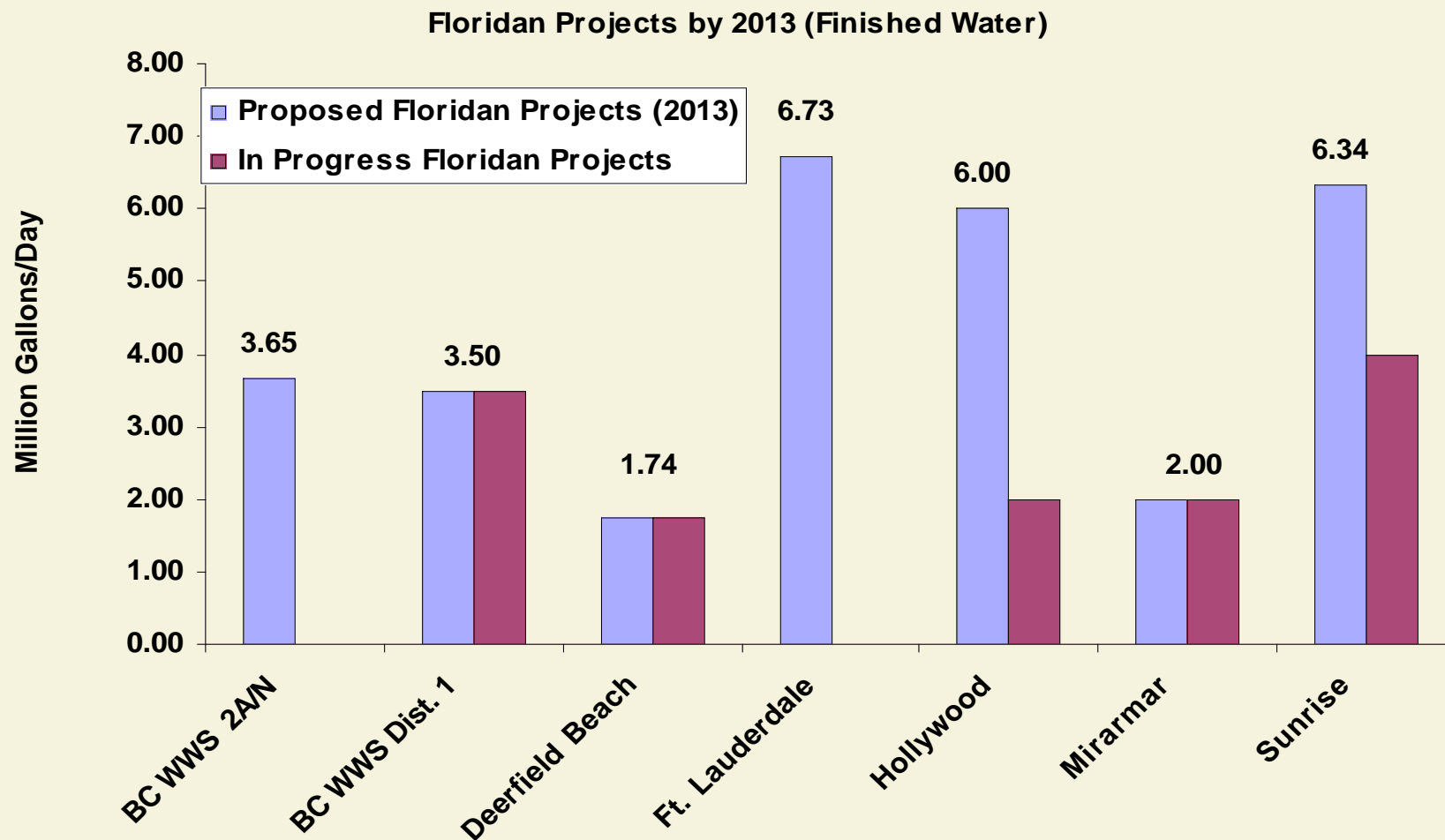
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Legend

- Unmet Need, MGD (2025 Demand - Biscayne Finished Water Allocation)
- Future Floridan Projects
- Retail Service Area

Floridan Projects

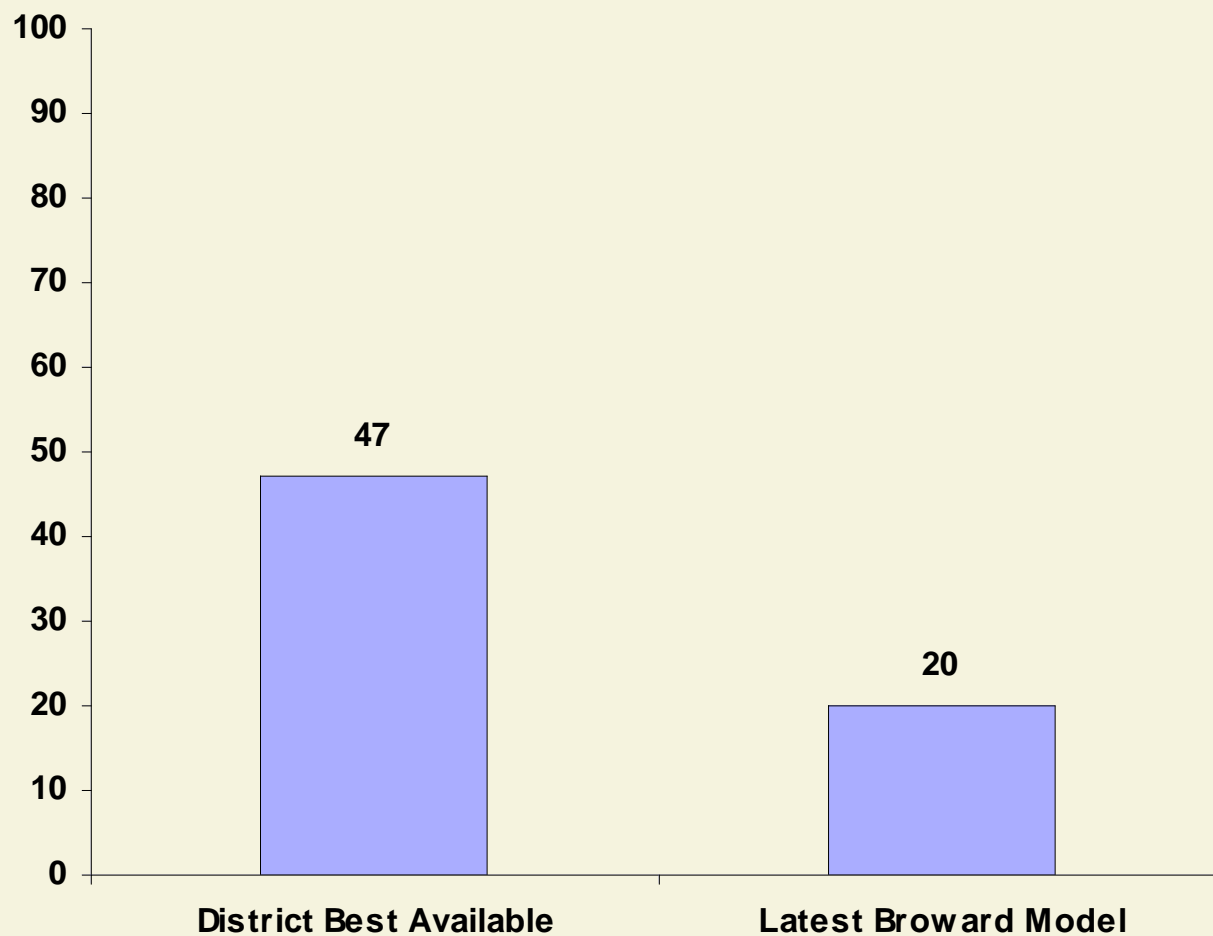


Key Points

- **Be cautious in making generalizations**
 - **Many utility-specific factors**
- **Floridan projects represent commitments through 2013**
- **Deferral of alternative projects reflected in CUP will require permit modification**

Remaining Unmet Needs

Unmet Needs in 2025 Beyond Biscayne Allocations



Conclusions

- **Future infrastructure needed by 2025 greatly reduced**
- **Potential for regional and subregional projects still exist**
 - **More time to develop options**
- **Opportunities for greater savings through conservation for many utilities**
 - **Reduce 20 MGD even further**
- **Reuse projects such as Miramar approach may help more utilities**